

Marius Ngaboyamahina

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Summary Statement

A seasoned Software Engineer with a Master's degree in Information Systems, I bring over 10 years of rich experience in the IT industry. My expertise lies in the full spectrum of the Software Development Life Cycle, complemented by a robust understanding of Data Science. I excel in Backend Engineering, Mobile Applications, Natural Language Processing, and Data Mining. My passion is to create innovative software solutions that not only fuel organizational success but also contribute positively to society. I have a proven track record in full-stack development across various tech stacks, with a keen interest in React, Node.js, and Microservice Architecture. Beyond my technical prowess, I am a dedicated mentor, committed to fostering the growth of others in the field.

Work Experience

Senior Software Developer Lead (Consultant) – Credit Jambo Ltd. Musanze, Rwanda (Remote, based in Accra, Ghana).

November 2025 – Present

*As a consultant for Credit Jambo Ltd, I led the technical delivery for the **Jambo360** platform, supporting the development of digital financial solutions. I worked closely with the Chief Technology Officer to steer architecture decisions, maintain code quality, and ensure on-time delivery of project milestones.*

Key Contributions:

- Led the technical development team, providing day-to-day guidance and oversight to drive execution against delivery milestones.
- Guided software architecture and technical design decisions for the Jambo360 platform in collaboration with the CTO.
- Established and enforced code quality practices through structured code reviews and engineering standards.
- Coordinated technical planning and progress tracking to support timely milestone delivery across the engagement.
- Tech Stack: Nodejs | Typescript | React | Tailwinds | React Native | Postgres | Docker | Microservices

Senior Software Engineer Consultant (Contract) - Hence Technologies Ltd, London, UK (Remote, Accra, Ghana).

June 2025 – Present

As a consultant for Hence Technologies, I provided software engineering expertise to support Hence Legal's global client base, working closely with teams across the US, Europe, and Africa.

Achievements:

- Delivered full-stack engineering solutions tailored to Hence Legal's proprietary technology platform.
- Supported client-facing engagements by translating business and IT requirements into actionable technical solutions.
- Designed and executed product workflows, ensuring alignment with complex client needs under tight deadlines.
- Performed data integration and transformation tasks, enhancing the efficiency and accuracy of client reporting systems.
- Rapidly acquired proficiency in **Palantir Foundry** architecture and integrated it into product development workflows.
- Tech Stack: Palantir Foundry | Full-Stack Development with JS, TS and React | Data Integration | Workflow Automation

Digital Factory Manager at UMWALIMU SACCO Headquarters, Kigali, Rwanda.

June 2023 – Present

As the Digital Factory Manager at UMWALIMU SACCO, I lead the development and implementation of technology/business solutions, leveraging Agile methodologies and a variety of software technologies.

Achievements:

- **Implemented Agile methodologies**, enhancing financial product delivery speed and client satisfaction.
- **Introduced CI/CD**, halving deployment times and ensuring high-availability banking services.
- **Pioneered containerization**, reducing infrastructure costs and enhancing application scalability.
- **Directed key system integrations** between UMWALIMU SACCO and telecoms/banking sectors, optimizing financial transaction workflows and increasing deposits.
- **Spearheaded integration projects** such as MTN Escrow Liquidation & Deposit, School Fees Collection, and School Feeding Collection (Dusangire Lunch), significantly contributing to UMWALIMU SACCO's deposit growth.
- **Led and designed the online loan application**, enabling teachers nationwide to apply for loans easily without needing to visit branches, thereby enhancing accessibility and convenience.
- **Designed and implemented the automation of loan provision** by applying IFRS 9 standards, improving the efficiency and accuracy of the loan approval process.
- **Led the integration with PostBridge Interface**, allowing teachers to use ATMs, which improved access to financial services and convenience for members.
- **Facilitated the integration with RSwitch**, joining other financial institutions on the interoperability with Rwanda National Digital Payment System (RNDPS), thereby enhancing transaction efficiency and reach.
- **Revitalized UMWALIMU SACCO's APIs**, enhancing system interoperability and reducing response times by half, contributing to seamless customer experiences.
- **Created a mentorship culture** within UMWALIMU SACCO, leading to a marked increase in the team's project management and system design skills.
- Tech Stack: C# | ASP.NET 7 | Docker | SQL Server | Windows Server | GitHub Actions

Technical Mentor at African Leadership International Limited, Cybercity, Mauritius.

November 2022

As a part of The Room's Global Tech Expert team, I had the privilege of part-time mentoring for the Tech Career Catalyst (TCC) program, contributing to the development of Africa's upcoming tech talent.

Achievements:

- Conducted mock interviews with TCC participants, providing them with a comprehensive job interview experience that encompassed both technical and behavioral questions.
- Reviewed resumes, offering constructive feedback and guidelines for improvement to enhance their job application success.

Programming Trainer at WiredIn Academy

November 2022 – June 2023

While fulfilling my primary responsibilities, I also contribute as a trainer to WiredIn Academy's newly launched program. This initiative aims to educate students on all aspects of programming, from basic principles to advanced concepts, logic, and software development processes. I dedicate one or two days a week to this enriching endeavor, sharing my knowledge and expertise with the next generation of tech enthusiasts.

Achievements:

- Assisted students in understanding the fundamental concepts of programming using Python.
- Engaged in pair programming exercises, facilitating knowledge sharing through hands-on experience with real-world projects.

Software Engineer Contract at Cardinal Peak, Lafayette, CO, USA

September 2020 – June 2023

In partnership with WiredIn, I serve as a remote Software Engineer for Cardinal Peak, working on a diverse range of projects for our clients based in the United States.

Achievements:

- Designed and implemented multiple microservices for live streaming and ad serving functionalities.
- Played a key role in developing a large-scale, enterprise system for live audio streaming.
- Was responsible for debugging and resolving issues in various microservices and legacy systems.
- Honed my skills in Microservices design patterns and familiarized myself with new AWS services such as AWS MSK, MQ, SQS, EKS, among others.
- Had the privilege of supervising a practicum project in Embedded Systems for a student from Carnegie Mellon.
- Tech Stack: PHP | Nodejs | React js | AWS | Kafka | HLS | Microservices | Redis | Postgres | MySQL | Docker | Kubernetes

Senior Software Developer - Team Lead at WiredIn LTD, Kigali, Rwanda

February 2020 – June 2023

In my role as a team lead, I manage a diverse portfolio of projects for clients across Japan, the Netherlands, France, and Rwanda. Part of my responsibilities includes providing supervision and mentorship to junior developers, fostering their growth and development in the field.

Achievements:

- Was responsible for analyzing requirements, designing, and implementing robust systems to meet those needs.
- Played a significant role in contributing to various architectural designs and business logic, ensuring alignment with project goals.
- Monitored ongoing projects, proactively identifying and rectifying logic and coding errors to ensure smooth project execution.
- Tech Stack: PHP | Yii2 | Java | Spring boot | Nodejs | React js | React Native | Android | AWS | Redis | Postgres | MySQL | Docker.

Software Engineer Consultant at Algorithm Inc., Kigali, Rwanda

February 2020 – March 2023

As I am passionate about data and dedicated to continuous technological advancements, I leverage my expertise as a Database Administrator Consultant and CTO Assistant to drive innovation and operational excellence.

Achievements:

- Contributed to the development of a solution aimed at connecting healthcare providers, including pharmacies, insurance companies, and hospitals/clinics.
- Assisted the development team in enhancing the performance of various projects such as the Virtual Sales Data Controller (VSDC), Point of Sales (POS), and Enterprise Resource Planning (ERP) systems, integrating them with the Rwanda Revenue Authority (RRA).
- Played a significant role in the export of Electronic Billing Machines (EBM) to Ghana, collaborating closely with a Ghanaian business partner to prepare and submit all necessary documents to the Ghana Revenue Authority (GRA).
- Executed ETL operations for the Ishyiga Data Warehouse, ensuring efficient data management.
- Conducted research and implemented a database auto backup solution with Amazon Simple Service (S3) Integration, enhancing data security and recovery.
- Ensure database integrity and optimal server performance by executing daily backups and supporting the CTO with server assessments, configurations, data migrations, and system monitoring.
- Tech Stack: PHP | Java | Python | MySQL | Apache Derby | AWS

Software Engineer Professional Intern at Rexvirt Communications Inc., Tokyo, Japan **September 2019–January 2020**

Upon graduating, I was privileged to secure an internship at Rexvirt Communications in Tokyo. During this tenure, I gained valuable experience in implementing IoT Systems within the context of a Japanese business environment.

Achievements:

- Developed an IoT solution encompassing web and mobile applications, as well as Restful API web services.
- Regularly utilized development tools such as the Yii Framework, Arduino, and React Native.
- Acquired skills in KiCad and Fusion 360, using them to design PCB and 3D printed boxes for the device, respectively.
- Tech Stack: PHP | Yii2 | React Native | Android | AWS | Arduino | Fusion 360 | KiCad | MySQL.

Software Developer at WiredIn LTD, Kigali, Rwanda **October 2015–August 2017**

In my role as a Backend Developer, I had the opportunity to work on a diverse range of projects catering to the needs of our Japanese clientele.

Achievements:

- Collaborated with project managers to coordinate the design and implementation of various applications, ensuring alignment with project goals.
- Worked remotely with dedicated teams in Japan, focusing on application design and quality assurance testing to deliver top-notch solutions.
- Maintained close relationships with local clients in Rwanda, gathering feedback at different stages of the project lifecycle and addressing their concerns promptly to ensure customer satisfaction.
- Tech Stack: PHP | Yii2 | Ionic2 | Angular | AWS | Redis | Postgres | MySQL | Docker

Software Support Manager at Algorithm Inc., Kigali, Rwanda **January 2015–September 2015**

My core responsibility revolved around gathering user feedback and leveraging it to design enhanced features, with the ultimate goal of elevating user experience and boosting customer satisfaction.

Achievements:

- Proactively identified, reported, and rectified quality assurance issues to maintain high standards of service.
- Facilitated training courses for new employees and users, ensuring they were well-equipped to utilize our systems.
- Developed a Bug Reporting Tool to streamline the collection of user feedback, enhancing our response efficiency.
- Leveraged my advanced troubleshooting skills to resolve complex technical issues.
- Analyzed reports and surveys, and used client feedback to design new functionalities, thereby improving our product offerings.
- Tech Stack: PHP | Java | MySQL | Apache Derby

Junior Software Developer at Algorithm Inc., Kigali, Rwanda **May 2013–December 2014**

While expanding my knowledge of new programming concepts, I collaborated with senior team members on the development of a Clinic Management System, gaining valuable hands-on experience in the process.

Achievements:

- Meticulously examined all products, reporting any performance issues to senior developers for prompt resolution.
- Was responsible for conducting thorough testing and documenting system resolutions to ensure optimal performance.
- Collaborated closely with senior team members, leveraging their expertise to troubleshoot and resolve common issues.
- Tech Stack: PHP | Java | MySQL | Apache Derby

Education

Master of Science (M.S.) in Information Systems at Kobe Institute of Computing, Graduate School of Information Technology, Kobe, Japan. **October 2017–September 2019**

- **Relevant Coursework:** *Advanced Information Network • Advanced Software Developments (Cloud Computing) • Information Network Special Experiments • Project Management • System Architecture Special Experiments*

Bachelor of Science (B.S.) in Computer Engineering at University of Rwanda, College of Sciences and Technology (Formerly known as Kigali Institute of Science and Technology), Kigali, Rwanda. **January 2010–September 2013**

Skills

Expert (★★★★★):

PHP | JavaScript | TypeScript | SQL | Git | Yii Framework | Nodejs | Express.js | Tailwind | System Architectural Design | Requirements Analysis | Software Requirements Specification | Software & Database Design | API Documentation (Swagger & Postman) | Microservice Design | PostgreSQL

Advanced (★★★★☆):

Java | Python | C# | React | Next.js | Angular | Spring Boot | .Net 7 | Android | Object-oriented Design | Docker & Kubernetes | Amazon Web Services - (Developer Associate Level) | Jenkins | CI/CD | Maven | Gradle | SQL Server | Data Processing | Confluent Cloud (Kafka and Apache Avro) | RabbitMQ

Familiar (★★★☆☆):

C++ | WordPress | Symfony | Laravel | Machine Learning | Natural Language Processing (NLP) | IoT with Arduino Programming and Raspberry Pi | KiCad | Fusion 360.

Awards & Certifications

- African Business Education (ABE) Initiative Master's Degree and Internship Program 2017.
- Japanese-Language Proficiency Test (JLPT) N4.
- Cisco Certified Network Associate (CCNA).

Publications

- “The Impact of Sentiment Analysis on Social Media to Assess Customer Satisfaction: The Case of Rwanda.”, 2019 IEEE 4th International Conference on Big Data Analytics (ICBDA), Suzhou, China, 2019, pp. 356-359. DOI: [10.1109/ICBDA.2019.871321](https://doi.org/10.1109/ICBDA.2019.871321)

Hobbies and Interests

- Learning New Things • Programming & Data Science • New Technologies • Movies • Traveling